

Infino TK-2050H

Polycyclohexylenedimethylene Terephthalate

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino TK-2050H is a polycyclohexyldimethyl terephthalate (PCT) product, which contains a glass fiber reinforced material. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: mirrors. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E115797-101658603		
Filler / Reinforcement	Glass fiber reinforced material		
Features	General		
Uses	Reflector		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.79	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	35	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.49 - 0.59	%	ASTM D955
Transverse flow: 3.20mm	0.50 - 0.62	%	ASTM D955
Lateral flow: 3.20mm	0.50 - 0.62	%	ISO 2577
Traffic: 3.20mm	0.49 - 0.59	%	ISO 2577
Ash Content			
--	51	%	ASTM D5630
--	51	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	119		ASTM D785
R scale	119		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4780	MPa	ASTM D638
--	6050	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	58.8	MPa	ASTM D638
Yield	57.0	MPa	ISO 527-2/5
Fracture ³	58.8	MPa	ASTM D638
Fracture	57.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ⁴	2.1	%	ASTM D638
Fracture	1.7	%	ISO 527-2/5

Flexural Modulus ⁵			
--	6370	MPa	ASTM D790
--	6960	MPa	ISO 178
Flexural Strength ⁶			
--	71.6	MPa	ASTM D790
--	74.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	2.7	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁸ (23°C)	12	kJ/m ²	ISO 179/1eU
Notched Izod Impact			
23°C, 3.18 mm	23	J/m	ASTM D256
23°C, 6.35 mm	22	J/m	ASTM D256
23°C ⁹	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C, 3.18 mm	170	J/m	ASTM D256
23°C, 6.35 mm	170	J/m	ASTM D256
-5°C ¹⁰	11	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm	240	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	240	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	203	°C	ISO 75-2/A
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
1.5 mm	HB	UL 94	
3.0 mm	HB	UL 94	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	2.0 mm/min		
6.	2.0 mm/min		
7.	Thickness: 4mm		
8.	Thickness: 4mm		
9.	Thickness: 4mm		
10.	Thickness: 4mm		

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